



## PV1800 MPK Series High Frequency Off Grid Solar Inverter

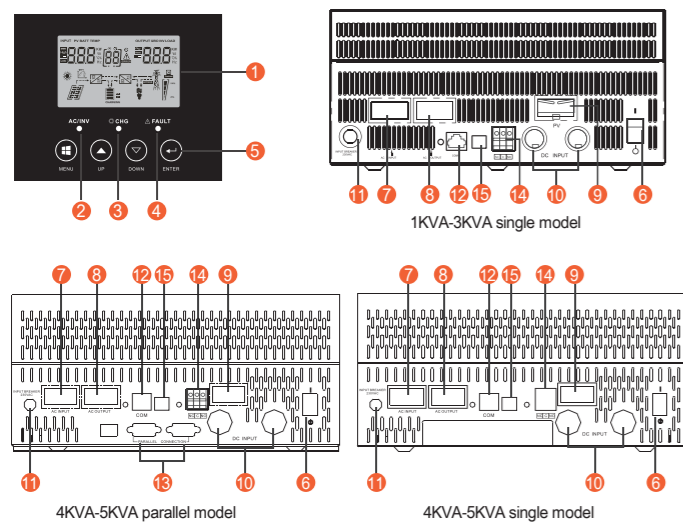
### Feature:

- Rated power 2KVA to 5KVA
- Pure sine wave output
- Smart LCD setting(Working modes, Charge Current, Charge Voltage, etc.)
- Built-in MPPT 50A/60A solar charge controller
- MPPT Efficiency max 98%
- New SUB working mode(Solar-Utility-Battery working mode) for 4K-5K series
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Parallel operation with up to 3 units (Available for 4KVA/5KVA only)
- Cold start function
- WIFI/ GPRS remote monitoring (optional)
- Compatible to generator
- Support USB, RS485 monitoring function with free CD

### Introduction:

This is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

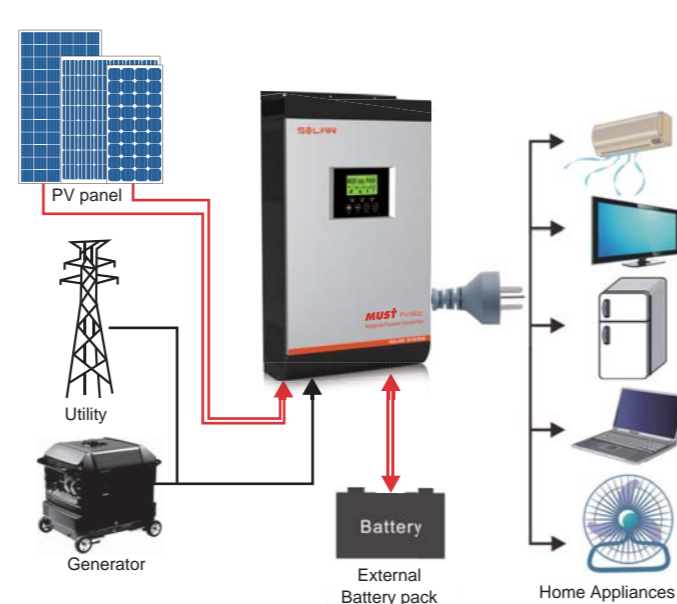
### LCD Display Information



1. LCD display
2. Status indicator
3. Discharging/Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker
12. RS485 communication port
13. Parallel communication cable (only for parallel model)
14. Dry contact
15. USB

**NOTE:** For parallel model installation and operation, please check separate parallel installation guide for the details.

### Solar System Connection



### Back Panel



### Specification

MODEL	PV18-2K MPK	PV18-3K MPK	PV18-4K MPK	PV18-5K MPK
<b>Default Battery System Voltage</b>	24VDC		48VDC	
<b>INVERTER OUTPUT</b>	Rated Power	2000VA/ 1600W	3000VA/ 2400W	4000VA/ 3200W
	Surge Power	4000VA	6000VA	8000VA
	Waveform	Pure sine wave		
	AC Voltage Regulation (Batt.Mode)	220VAC-240VAC/110VAC-120VAC		
	Inverter Efficiency(Peak)	93%		
	Transfer Time	10ms (FST- APL) 、 20ms (SLO)		
<b>AC INPUT</b>	Voltage	230VAC		
	Selectable Voltage Range	170-280VAC (FST) 、 90-280VAC (SLO) 、 184-253VAC (APL)		
	Frequency Range	50Hz/60Hz (Auto sensing)		
<b>BATTERY</b>	Normal voltage	24VDC	48VDC	
	Floating Charge Voltage	27VDC	54VDC	
	Overcharge Protection	31VDC	60VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>	Maximum PV Array Open Circuit Voltage	100VDC	145VDC	
	PV Array MPPT Voltage Range	30-95VDC	64-130VDC	
	Standby Power Consumption	2W		
	PV input power Power	1200W	3000W	
	Maximum Solar Charge Current	50A	60A	
	Maximum Efficiency	98%		
<b>MECHANICAL SPECIFICATIONS</b>	Maximum AC Charge Current	20A or 30A	60A	
	Maximum Charge Current	80A	120A	
	Machine Dimensions (W*H*D)(mm)	272*355*100	297.5*468*125	
	Package Dimensions (W*H*D)(mm)	485*393*251	638*395*241	
<b>OTHER</b>	Net Weight(kg)	7.4	14	
	Gross Weight(kg)	9.5	16.4	
	Humidity	5% to 95% Relativ Humidity (Non-condensing)		
Operating Temperature	0°C -55°C			
Storage Temperature	-15°C -60°C			

\* Product specifications are subject to change without further notice.

### Approximate Back-up Time Table

Model	Load (VA)	Backup Time@24V 100Ah(min)	Backup Time@24V 200Ah(min)	Model	Load (VA)	Backup Time@48V 100Ah(min)	Backup Time@48V 200Ah(min)
1KVA	200	766	1610	1KVA	100	2529	5058
	600	198	503		500	482	1035
	1000	112	269		1000	186	471
2KVA	200	766	1610	2KVA	200	1581	3161
	1000	112	269		1000	268	615
	2000	50	112		2000	106	257
3KVA	300	449	1100	3KVA	300	1054	2107
	1500	68	164		1500	159	402
	3000	28	67		3000	63	155
4KVA	400	766	1610	4KVA	400	766	1610
	2000	112	269		2000	112	269
	4000	50	112		4000	50	112
5KVA	500	613	1288	5KVA	500	613	1288
	2500	90	215		2500	90	215
	5000	40	90		5000	40	90